

ABSTRACT

A communications system and method of operating the communications system includes a high altitude communication device that communicates with a plurality of user terminals and a gateway station. The gateway station couples the users to terrestrial networks and other users. The high altitude communication device has a controller that assigns a first code to a beam of a first plurality of users. When one of the first plurality of users moves to interfere with one of the other of the first plurality of users, the beam associated with the user is reassigned another code.

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